

**Kv10.1, A NOVEL VOLTAGE-GATED POTASSIUM CHANNEL FROM
HUMAN BRAIN**

ABSTRACT OF THE DISCLOSURE

5 The invention provides isolated nucleic acid and amino acid sequences of Slo potassium family members such as , antibodies to Kv10 subfamily members such as Kv10.1, methods of detecting Kv10, subfamily members such as Kv10.1, methods of screening for potassium channel activators and inhibitors using biologically active Kv10 subfamily members such as Kv10.1, and kits for screening for activators and inhibitors of voltage-gated
10 potassium channels comprising Kv10 subfamily members such as Kv10.1.

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